Onan

Genset

Parts Catalog

HDCAA HDCAB HDCAC



Printed in U.S.A.

981-0259B 7-99 (Spec A)

MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

The following symbols are used in Onan manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.

A DANGER

This symbol warns of immediate hazards which will result in severe personal injury or death.

△WARNING

This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

△CAUTION

This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.

PRODUCT SAFETY PRECAUTIONS

△WARNING

Service and repair of Onan equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.

△WARNING

Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.

△WARNING

Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!

△WARNING

Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!

Introduction

This parts catalog applies to the standard generator sets listed below. Parts are arranged in groups of related items and each illustrated part is defined by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Using the model and specification number from your generator set nameplate, select parts that apply to your set. Right and left sides are determined by facing the engine end (front) of the set.

Generator Set Data Table

Model Identification	Rating	Wiring Diagram AC/DC	Voltage	Hertz	Phase
10.0HDCAA/*	10,000 Watts	611–1256	120/240	60	1
12.5HDCAB/*	12,500 Watts	611–1256	120/240	60	1
10.0HDCAC*	10,000 Watts	611–1256	120/240	60	1

^{* –} The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A, to B, to C, etc.) with major manufacturing changes.

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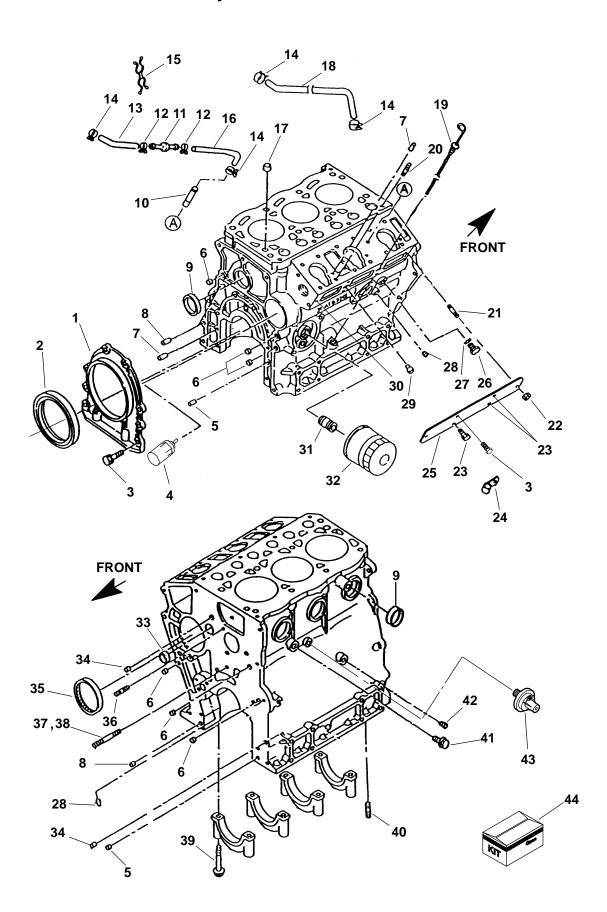
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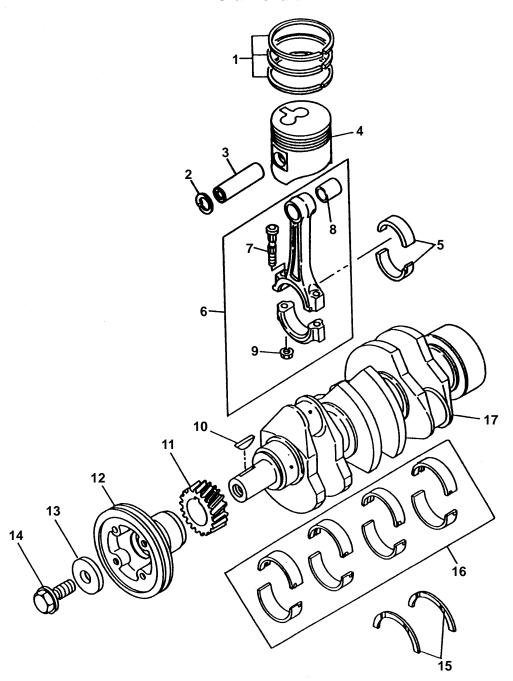
Cylinder Block



Cylinder Block

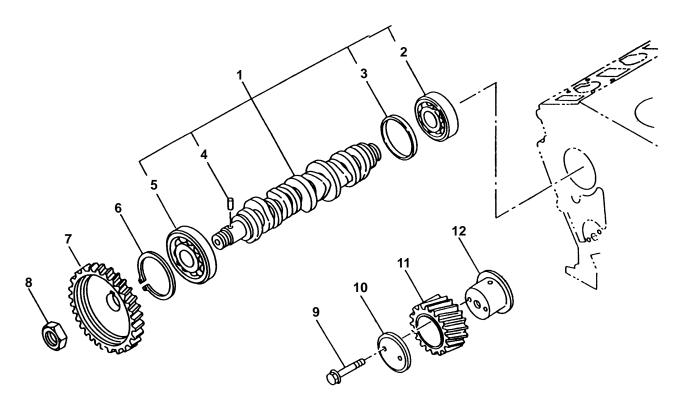
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	100–3432	1	Engine, Replacement	23	187–1002	3	Bolt, Cover
1	187–1196	1	Retainer, Crank Rear	24	187–1331	1	Clip, Fuel Pump Lead Wire
2	187–1042	1	Seal, Crank Rear Oil	25	187–1287	1	Cover, Injection Pump Housing
3	187–1003	7	Bolt	26	187–1039	1	Plug, Cylinder Block (M14)
4	150–2700	1	Actuator (E1)	27	187–1335	1	Gasket, Plug
5	187–1341	2	Dowel, Oil Pump	28	187–1025	2	Plug, Oil Gallery (1/8"PT)
6	187-1038	6	Cup, Sealing (12mm Dia.)	29	187-1190	2	Pin, Control Link
7	187-1316	5	Pin, Straight	30	187-1143	1	Stud, Injection Pump Housing
8	187-1317	2	Pin, Housing Straight				Cover (19mm Lg)
9	187-1286	4	Cup, Sealing (35mm Dia.)	31	187-1140	1	Stud, Oil Filter
10	187-1046	1	Connector, PCV	32	187-1000	1	Filter, Oil
11	187-1134	1	Valve, Check	33	187-1023	1	Cup, Sealing (22mm Dia.)
12	187-1131	2	Clip, Hose	34	187-1341	2	Dowel, Timing Case
13	187-1278	1	Hose, PCV	35	187-1220	1	Bearing, Cam Center Needle
14	187-1043	4	Clip, Hose	36	187-1310	1	Stud, Water Pump (40mm)
15	187-1066	1	Clip, Hose	37	187-1312	1	Stud, Timing Case (60mm)
16	187-1277	1	Hose, PCV	38	187-1311	1	Stud, Timing Case (50mm)
17	187-1126	2	Dowel, Cylinder Head	39	187–1115	8	Bolt, Metal Cap
18	187-1276	1	Hose, PCV	40	187-1307	2	Stud, Oil Pan
19	187-1290	1	Indicator, Oil Level	41	187-1337	1	Plug, Water Drain (1/4"PT)
20	187-1021	6	Stud, Injection Pump (20mm)	42	187-1026	1	Plug, Oil Gallery (1/4" PT)
21	187-1307	1	Stud, Injection Pump Housing	43	185-5492	1	Switch, Oil (S2)
			Cover (16mm Lg)	44	187-1308	1	Kit, Engine Repair (Top
22	187–1018	2	Nut, Cover				Overhaul)

Crankshaft



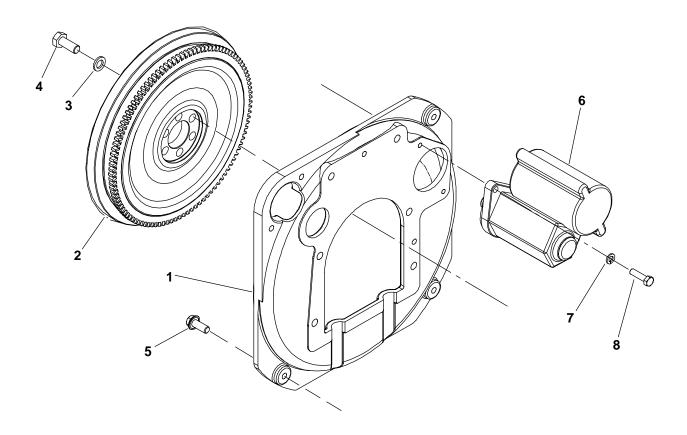
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Ring Set, Piston	7	187–1128	6	Bolt
	187-1294	3	Standard	8	187-1049	3	Bush
	187-1217	3	0.25 Oversized	9	187-1129	6	Nut
2	187-1063	6	Ring, Snap	10	187-1127	1	Key, Woodruff
3	187-1048	3	Pin, Piston	11	187-1163	1	Gear, Crankshaft
4			Piston	12	187-1247	1	Pulley, Crankshaft
	187-1272	3	Standard	13	187-1113	1	Washer
	187-1202	3	0.25 Oversize)	14	187-1147	1	Bolt
5	187–1114	3	Bearing Set	15	187-1047	2	Washer, Thrust
6	187-1218	3	Rod, Connecting (Includes	16	187-1216	1	Washer Kit, Standard Thrust
			Bolts, Bush and Nuts)	17	187–1195	1	Crankshaft

Camshaft/Idle Gear



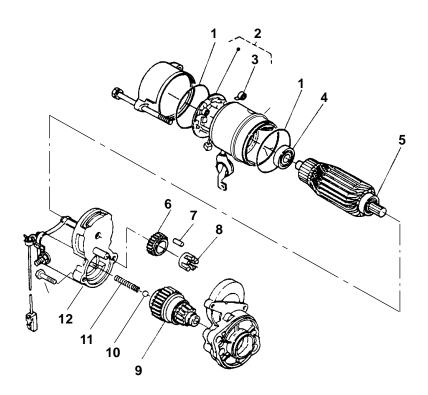
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187–1228	1	Camshaft Assy (Includes Parts	8	187–1035	1	Nut, Cam Gear
			Marked *)	9	187–1016	2	Bolt
2	187-1304	1	*Bearing, Rear Ball	10	187-1050	1	Collar, Thrust
3	187-1227	1	*Ring, Camshaft Wear	11	187-1300	1	Gear, Idle (with Bush)
4	187-1339	1	*Pin	12	187-1299	1	Shaft, Idle Gear
5	187-1303	1	*Bearing, Front Ball				
6	187-1238	1	Ring, Snap				
7	187–1273	1	Gear, Injection Pump & Valve	* –	Parts Include	d in Cams	shaft Assy.

Flywheel



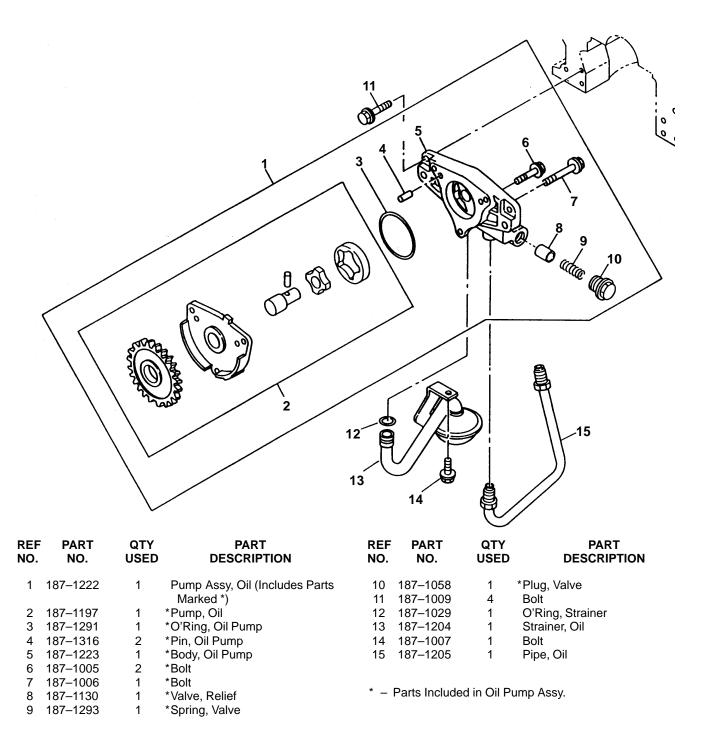
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1 2	104–1934 104–1936	1 1	Housing, Flywheel Flywheel	6	191–2229	1	Starter (See Separate Page for Components)
3	187-1158	6	Washer	7	850-2008	2	Washer, Lock (M8)
4	187–1112	6	Bolt	8	800-2515	2	Screw, Hex Head Cap
5	821–2061	6	Screw, Lock Head Flange (M10 x 1.5 x 25mm)				(M8 x 1.25 x 30mm)

Starter Components

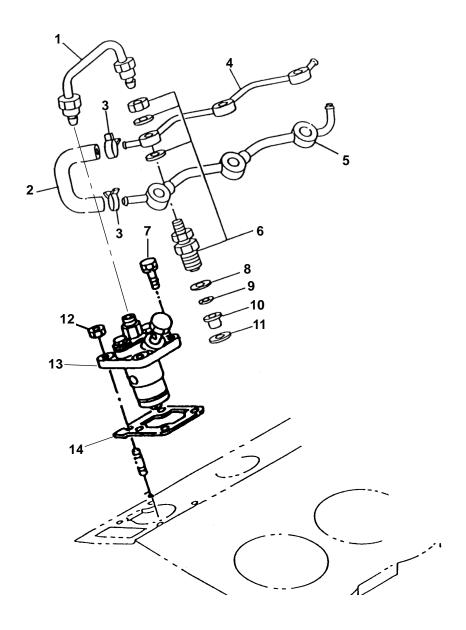


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191–2229	1	Starter	6	191–2250	1	Pinion, Starter
1	191-2239	1	O'Ring	7	191-2252	1	Roller, Clutch
2	191-2247	1	Holder Assy, Starter (Includes	8	191-2251	1	Retainer
			Spring)	9	191-2253	1	Clutch, Starter
3	191-2246	1	Spring, Starter	10	191-2241	1	Ball, Steel
4	191-2255	1	Bearing, Ball	11	191-2240	1	Spring, Return
5	191-2254	1	Bearing, Ball	12	191-2245	1	Switch, Magnetic

Oil Pump

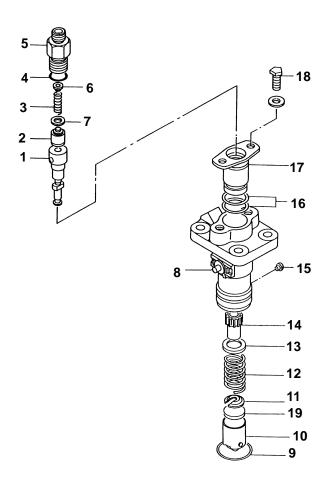


Injection Pump



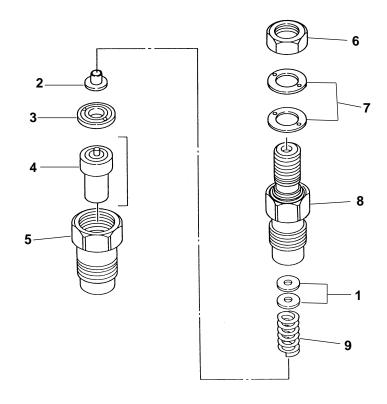
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187–1208	3	Pipe, Injection	13	187–1162	3	Pump Assy, Injection (See
2	187-1215	1	Hose, Fuel Feed Leakoff				Separate Page for
3	187-1043	2	Clip, Fuel Hose				Components)
4	187-1210	1	Pipe, Fuel Leakoff	14			Shim, Injection Pump
5	187-1270	1	Pipe, Fuel Feed		187-1166	AR	0.2mm
6	187-1249	3	Nozzle Assy, Injection (See		187-1167	AR	0.3mm
			Separate Page for		187-1168	AR	0.4mm
			Components)		187-1169	AR	0.5mm
7	187-1010	6	Bolt		187-1170	AR	0.6mm
8	187-1136	3	Gasket, Nozzle Holder		187–1171	AR	0.7mm
9	187-1060	3	Washer, Corrugated		187-1172	AR	0.8mm
10	187-1061	3	Shield, Nozzle Heat		187-1173	AR	1.0mm
11	187-1137	3	Gasket, Heat Shield		187-1174	AR	1.2mm
12	187-1019	6	Nut				

Injection Pump Components



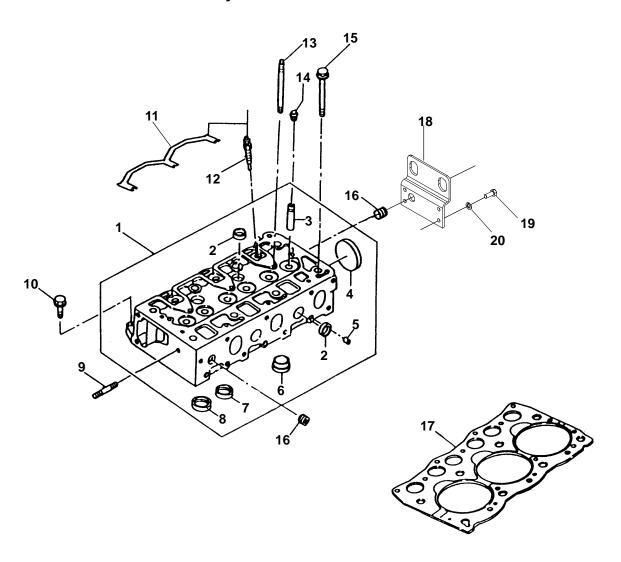
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	187–1162	1	Pump, Injection		187–1081	AR	2.90
1	187-1302	3	Plunger		187–1082	AR	2.95
2	187-1253	3	Valve, Delivery		187–1083	AR	3.00
3	187-1067	3	Spring, Delivery		187–1084	AR	3.05
4	187-1069	3	O'Ring		187–1085	AR	3.10
5	187-1110	3	Holder, Delivery		187–1086	AR	3.15
6	187-1254	3	Seat, Spring		187–1087	AR	3.20
7	187-1068	3	Gasket		187–1088	AR	3.25
8	187-1258	3	Rack, Control		187–1089	AR	3.30
9	187-1257	3	Ring, Snap		187–1090	AR	3.35
10	187-1070	3	Tappet		187–1091	AR	3.40
11	187-1073	3	Seat, Spring (Lower)		187–1092	AR	3.45
12	187-1071	3	Spring, Plunger		187–1093	AR	3.50
13	187-1072	3	Seat, Spring (Upper)		187–1094	AR	3.55
14	187-1074	3	Sleeve, Control		187–1095	AR	3.60
15	187-1256	3	Pin		187–1096	AR	3.65
16	187-1146	6	O'Ring		187–1097	AR	3.70
17	187-1255	3	Sleeve, Flange		187–1098	AR	3.75
18	187–1145	6	Bolt		187–1199	AR	3.80
19			Plate		187–1100	AR	3.85
	187–1075	AR	2.60		187–1101	AR	3.90
	187–1076	AR	2.65		187–1102	AR	3.95
	187–1077	AR	2.70		187–1103	AR	4.00
	187–1078	AR	2.75		187–1104	AR	4.05
	187–1079	AR	2.80		187–1105	AR	4.10
	187–1080	AR	2.85				

Injection Nozzle Components



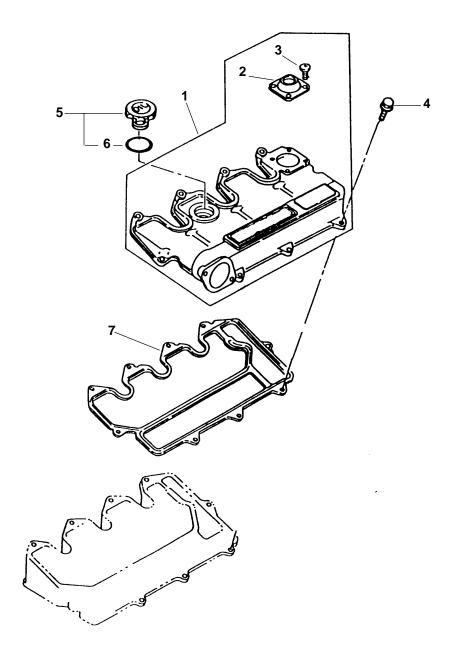
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	187–1249	3	Nozzle, Injection	2	187-1106	3	Seat, Spring
1			Shim	3	187-1259	3	Spacer
	187–1116	AR	0.1	4	187-1346	3	Nozzle
	187–1117	AR	0.2	5	187-1264	3	Nut, Retaining
	187–1125	AR	0.3	6	187-1108	3	Nut
	187–1118	AR	0.4	7	187-1059	6	Gasket
	187–1119	AR	0.5	8	NFS	3	Body, Nozzle Holder
	187–1120	AR	0.52	9	187-1107	3	Spring, Nozzle
	187–1121	AR	0.54				
	187–1122	AR	0.56				
	187–1123	AR	0.58				
	187–1124	AR	0.8				

Cyinder Head



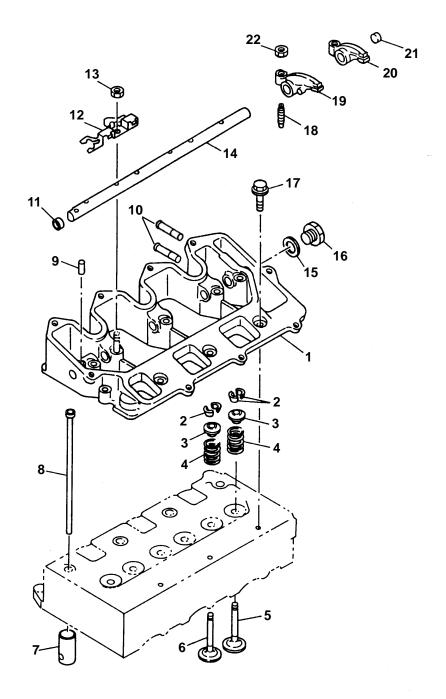
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187–1274	1	Head Assy, Cylinder (Includes	13	187-1269	5	Stud, Rocker Bracket
			Parts Marked *)	14	187–1062	6	Seal, Valve
2	187-1023	4	*Cup, Sealing (22mm Dia.)	15	187–1185	8	Bolt, Cylinder Head
3	187–1159	6	*Guide, Valve	16	187-1040	2	Plug, Heater Switch (3/8"PT)
4	187-1022	1	*Cup, Sealing (44.5mm Dia)	17	187-1201	1	Gasket, Cylinder Head
5	187-1044	4	*Plug, Drilled (8mm Dia.)	18	403-4209-02	1	Bracket, Lifting
6	187-1226	3	*Plug, Hot	19	800-2057	4	Screw, Hex Head Cap
7	187-1199	3	*Seat, Inlet Insert Valve				(M8 x 1.25 x 25mm)
8	187-1200	3	*Seat, Exhaust Insert Valve	20	850-2008	4	Washer, Lock (M8)
9	187-1310	1	Stud, Water Pump				,
10	187-1152	4	Bolt, Cylinder Head				
11	187-1212	1	Cord, Glow Plug	* –	Parts Included	in Cylind	der Head Assy.
12	187–1289	3	Plug, Glow (HR1)				

Cylinder Head Cover



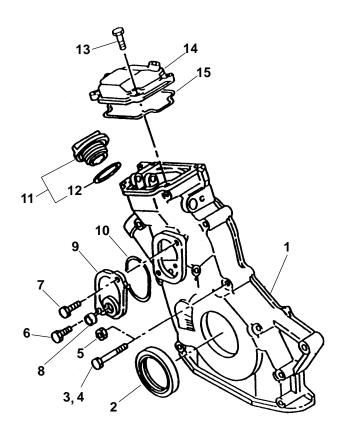
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187–1237	1	Cover Assy, Cylinder Head (Includes Ventilator Valve and Screws)	-	187–1003 187–1111	9 1	Bolt, Cylinder Head Cover Cap Assy, Oil Fill (Includes Gasket)
2	187-1142	1	Valve, Ventilator	6	187-1065	1	Gasket, Oil Fill Cap
3	187–1305	4	Screw, Valve	7	187–1240	1	Gasket, Cylinder Head Cover

Rocker Arm



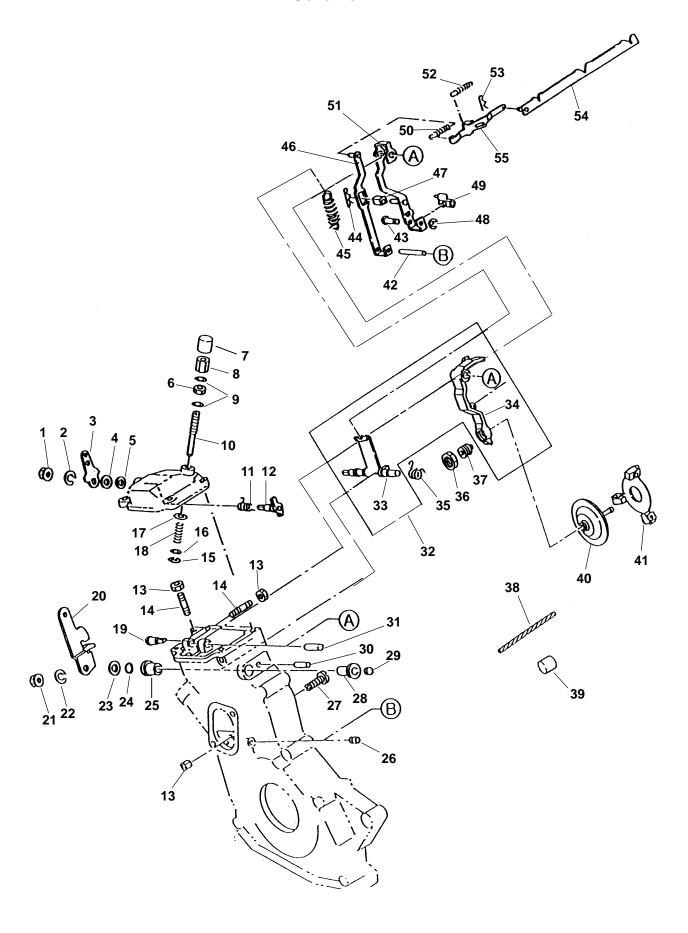
REF		QTY	PART	REF	PART	QTY	PART
NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
1	187-1301	1	Bracket, Rocker	12	187-1239	3	Spring, Rocker
2	187-1132	12	Collar, Split	13	187-1018	5	Nut, Rocker Bracket
3	187-1135	6	Seat, Valve Spring	14	187-1238	1	Shaft, Rocker
4	187–1175	6	Spring, Valve	15	187-1334	1	Gasket, Plug
5	187-1211	3	Valve, Exhaust	16	187-1343	1	Plug, Rocker Shaft
6	187-1271	3	Valve, Inlet	17	187-1004	4	Bolt
7	187-1297	6	Tappet	18	187-1153	6	Screw
8	187-1233	6	Rod, Push	19	187-1295	3	Arm, Rocker (Inlet)
9	187-1338	1	Pin	20	187-1296	3	Arm, Rocker (Exhaust)
10	187-1198	2	Pipe	21	187-1191	1	Cup, Sealing (8mm)
11	187–1340	1	Cup, Sealing (12mm)	22	187–1322	6	Nut

Gearcase



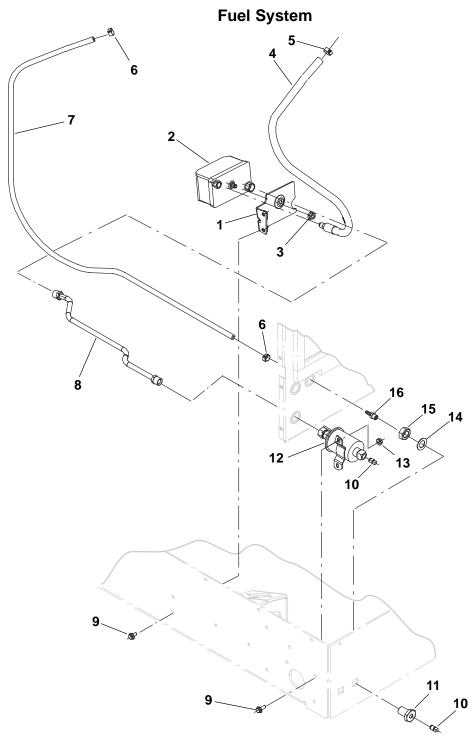
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187–1267	1	Gearcase	9	187–1189	1	Cover, Gearcase
2	187-1041	1	Seal, Crankshaft Front Oil	10	187-1332	1	O'Ring, Gearcase Cover
3	187-1016	6	Bolt, Timing Case	11	187-1149	1	Cap Assy, Oil Fill (Includes
4	187-1014	2	Bolt, Timing Case				Gasket)
5	187-1019	2	Nut, Timing Case	12	187-1065	1	Gasket, Oil Fill Cap
6	187-1243	1	Bolt, W/ Detent Hole	13	187-1003	4	Bolt, Cover
7	187-1002	1	Bolt, Cover	14	187-1275	1	Cover, Governor Lever
8	187-1045	1	Cup, Sealing (16mm Dia.)	15	187-1229	1	Gasket, Governor Lever Cover

Governor

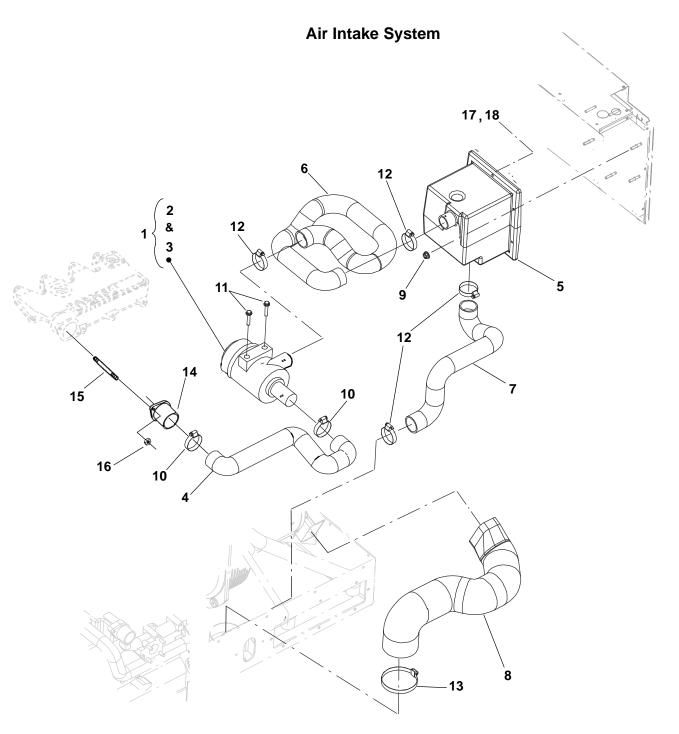


Governor

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-1321	1	Nut, Shaft Lever	30	187-1313	1	Pin, Control Spring
2	187-1324	1	Washer, Spring	31	187–1318	1	Shaft, Lever
3	187-1156	1	Lever, Fuel Cut	32	187-1268	1	Lever Kit, Governor (Includes
4	187–1037	1	Washer, Thrust				Main Spring Lever and Tension
5	187–1031	1	O'Ring, Shaft				Lever)
6	187-1322	1	Nut, Set Screw	33	187–1182	1	Lever, Main Spring
7	187–1052	1	Cap, Idle Set	34	187–1178	1	Lever, Governor Tension
8	187–1034	1	Nut, Set Screw Cap	35	187–1157	1	Spring, Return
9	187–1036	2	Gasket, Set Screw	36	187–1109	1	Nut, Holder
10	187–1154	1	Screw, Idle Spring Set	37	187–1057	1	Angleich Kit
11	187–1192	1	Spring, Fuel Cut Return	38	187–1342	2	Wire, Lead Seal
12	187–1155	1	Shaft, Fuel Cut	39	187–1032	2	Seal, Lead
13	187–1322	3	Nut, Screw	40	187–1266	1	Sleeve
14	187–1138	2	Screw, Speed Set Control	41	187–1213	1	Flyweight
15	187–1329	1	Ring, Idle Spring Snap	42	187–1315	1	Shaft, Floating Lever
16	187–1325	1	Washer, Idle Spring Lower	43	187–1319	1	Shaft, Shifter
17	187–1327	1	Washer, Idle Spring Upper	44	187–1030	1	Pin, Governor Lever Sprit
18	187–1250	1	Spring, Idle	45	187–1234	1	Spring, Main
19	187–1053	1	Eye, Start Spring	46	187–1251	1	Lever, Floating
20	187–1225	1	Lever, Governor Control	47	187–1292	1	Piece, Governor Lever
21	187–1321	1	Nut, Lever to Shaft				Guide Pin
22	187–1324	1	Washer, Spring	48	187–1330	1	Ring, Snap
23	187–1037	1	Washer, Thrust	49	187–1179	1	Shifter, Governor
24	187–1031	1	O'Ring, Control Shaft	50	187–1262	1	Spring, Set
25	187–1144	1	Bush, Main Spring Lever	51	187–1164	1	Lever, Guide
26	187–1026	1	Plug, Shaft (1/8"PT)	52	187–1183	1	Spring, Start
27	187–1193	1	Screw, Full Load Set	53	187–1030	1	Pin, Link Plate Snap
28	187–1188	1	Bush, Main Spring Lever	54	187–1288	1	Link, Control
29	187–1150	1	Cup, Bush Sealing (10mm Dia.)	55	187–1180	1	Plate, Lever Pump Link

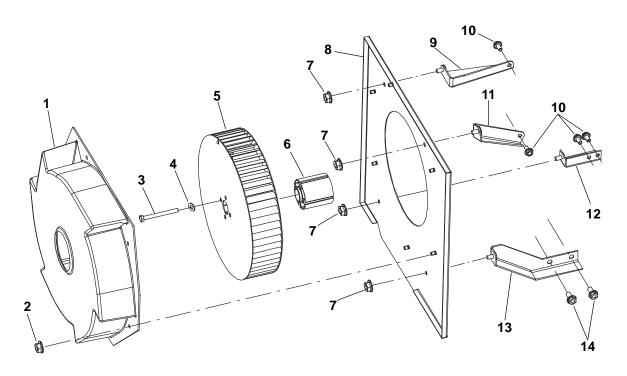


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2585-04	1	Bracket, Fuel Filter	10	517-0273	2	Plug, Pipe
2	149-2513	1	Filter, Fuel	11	502-1296-02	1	Fitting, Bulkhead
3	870-2057	1	Nut, Self Locking (M6 x 1)	12	149-2583	1	Pump, Fuel (E2)
4	149-2580-01	1	Line, Fuel Injection Pump	13	870-2054	2	Nut, Lock Flange
5	503-0170	1	Clamp, Hose	14	854-0028	1	Washer, IT Lock (5/8")
6	503-0685	2	Clamp, Hose	15	868-0007	1	Nut, Hex Jam (5/8-18)
7	503-2078	1	Line, Fuel	16	502-1299	1	Connector, Hose
8	149-2605	1	Line, Fuel Filter				
9	821-2096-02	4	Screw, Lock Flange				



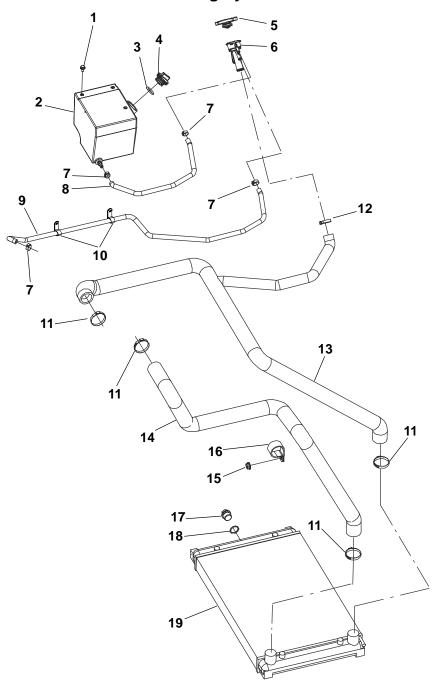
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140–3050	1	Cleaner Assy, Air (Includes Element and Cover)	11	821–2097–06	2	Screw, Lock Flnage (M8 x 1.25 x 45mm)
2	140-3071	1	Element, Air Cleaner	12	503-1140	4	Band, Hose Clamp
3	140-3072	1	Cover, Air Cleaner	13	503-1148	1	Band, Hose Clamp
4	503-2053	1	Hose, Intake	14	187-1165	1	Pipe, Air Inlet
5	134-5183	1	Resonator, Intake	15	187-1307	2	Stud, Inlet Pipe
6	503-2054-02	1	Hose, Intake	16	187-1018	2	Nut, Inlet Pipe
7	503-2054-01	1	Hose, Intake	17	305-0953-03	1	Control
8	211-0484-01	1	Tube, Air Intake	18	823-0002-06	3	Screw, Pan Head Machine
9	870-2054	6	Nut, Lock Flange (M6 x 1)				(M4 x 0.75 x 12mm)
10	503-0365	2	Band, Hose Clamp				,

Fan Mounting



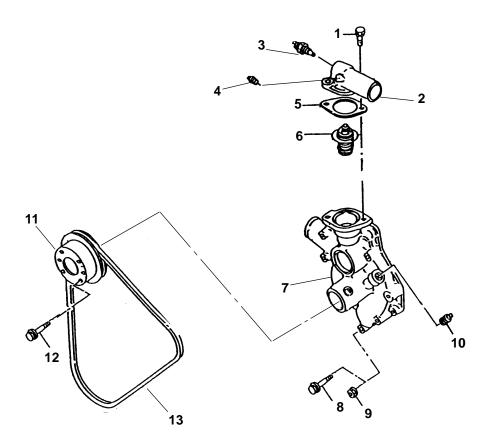
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4760	1	Scroll, Fan	9	130-4824-02	1	Bracket, Backplate
2	870-2054	6	Nut, Lock Flange (M6 x 1)	10	821-2045	4	Screw, Lock Flange
3	800-2069	4	Screw, Hex Head Cap				(M8 x 1.25 x 16mm)
			(M8 x 1.25 x 80mm)	11	130-4745-02	1	Bracket, Backplate
4	526-2100	4	Washer, Flat (M8)	12	130-4825-02	1	Bracket, Backplate
5	130-4748	1	Fan, Sucker	13	130-4826-02	1	Bracket, Backplate
6	130-1876	1	Spacer, Fan	14	821-2060	2	Screw, Lock Flange
7	870–2055	4	Nut, Lock Flange (M8 x 1.25mm)				(M10 x 1.5 x 20mm)
8	130-4742-02	1	Backplate Fan				

Cooling System



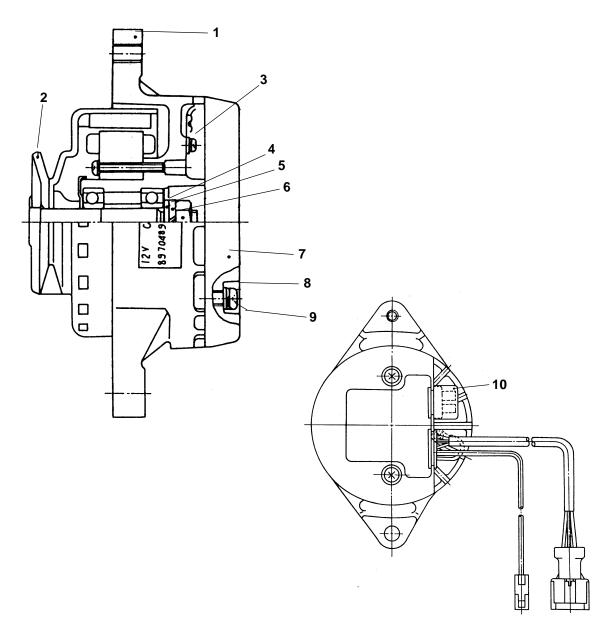
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-2096-02	3	Screw, Lock Flange	11	503-1138	4	Clamp, Hose
			(M6 x 1 x 12mm)	12	503-0189	1	Clamp, Hose
2	130-4322-01	1	Tank, Recovery	13	503-2056	1	Hose, Engine (In)
3	509-0329	1	O'Ring	14	503-2055	1	Hose, Engine (Out)
4	130-4450-02	1	Cap, Push-On	15	870-2056	1	Nut, Lock Flange
5	130-4320	1	Cap, Fill				(M10 x 1.5mm)
6	130-4321	1	Neck, Fill	16	332-2898	1	Clamp, Loop
7	503-0170	4	Clamp, Hose	17	870-0553	1	Plug, Hex Head Screw
8	503-2059	1	Hose, Overflow	18	509-0347	1	O'Ring
9	503-2060	1	Hose, Air Bleed	19	130-4722	1	Radiator
10	332-1554	2	Clamp, Hose				

Water Pump



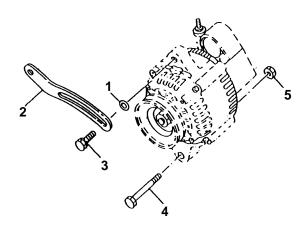
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187–1010	1	Bolt	9	187–1019	2	Nut
2	187-1280	1	Pipe, Water Outlet	10	187-1040	1	Plug, Heater (PT 3/8)
3	193-0318	1	Sender, Water Temperature	11	187-1187	1	Pulley, Fan
			(E3)	12	187-1001	2	Bolt, Pulley
4	502-1306	1	Connector, Hose	13	187-1232	1	Belt, Cooling Fan (836mm)
5	187–1141	1	Gasket, Outlet Pipe				,
6	187-1139	1	Thermostat				
7	187-1298	1	Pump, Water				
8			Bolt				
	187-1011	1	45mm				
	187-1016	2	60mm				
	187-1010	2	40mm				

Alternator Components



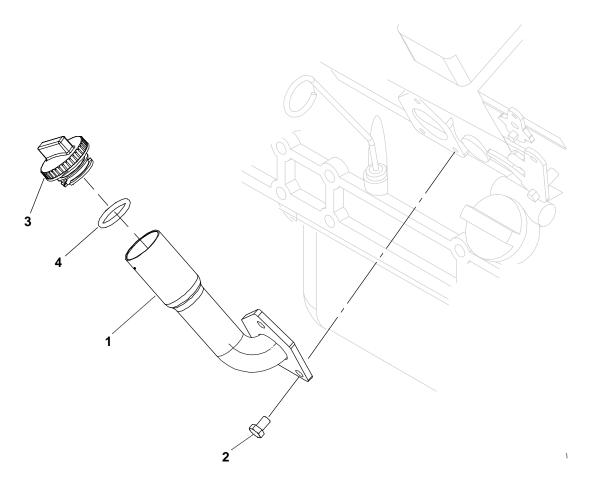
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	187–1224	1	Alternator (12V, 20A)	5	187–1055	1	Washer, Spring
1	187-1282	1	Plate Assy (Includes Bushings	6	187-1054	1	Nut
			and Bearings)	7	187-1284	1	Regulator
2	187-1283	1	Pulley	8	187-1306	2	Screw
3	187-1305	1	Screw	9	187-1326	2	Washer
4	187-1056	1	Washer	10	187-1285	1	Cap Terminal

Alternator Mounting



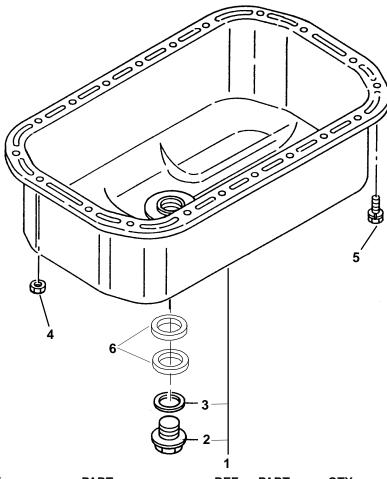
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED		PART DESCRIPTION
1	187-1345	1	Spacer	4	187-1015	1	Bolt	
2	187-1051	1	Plate, Adjustment	5	187-1020	1	Nut	
3	187-1010	1	Bolt					

Oil Fill Tube



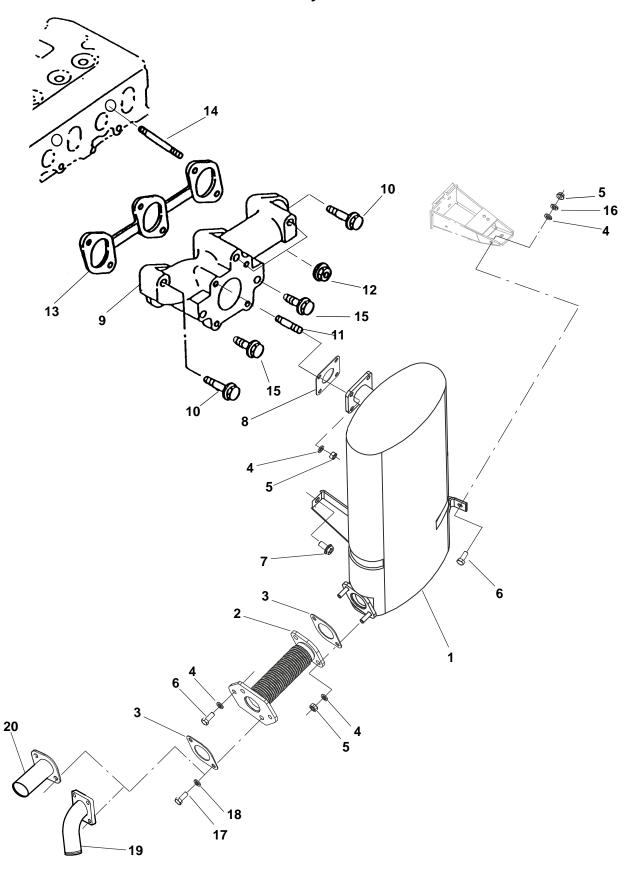
REF	PART	QTY	PART	REF	PART	QTY	PART
NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
-	123–2113–02 800–2027	1 3	Tube, Oil Fill Screw, Hex Head Cap (M6 x 1 x 10mm)	_	130–4450–01 509–0329	1	Cap, Push–On O'Ring

Oil Base



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187–1203	1	Pan, Oil (Includes Plug and	4	187–1018	2	Nut
			O'Ring)	5	187-1002	2	Bolt
2	187-1336	1	Plug	6	403-3859	2	Seal, Oil Drain
3	187-1028	1	O'Ring, Oil Drain Plug				

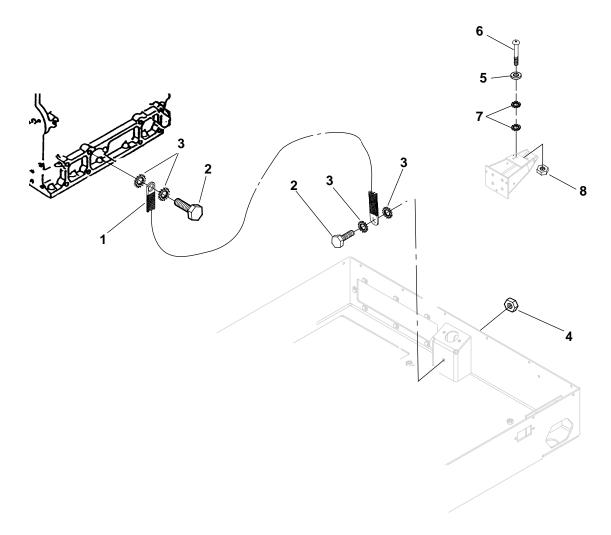
Exhaust System



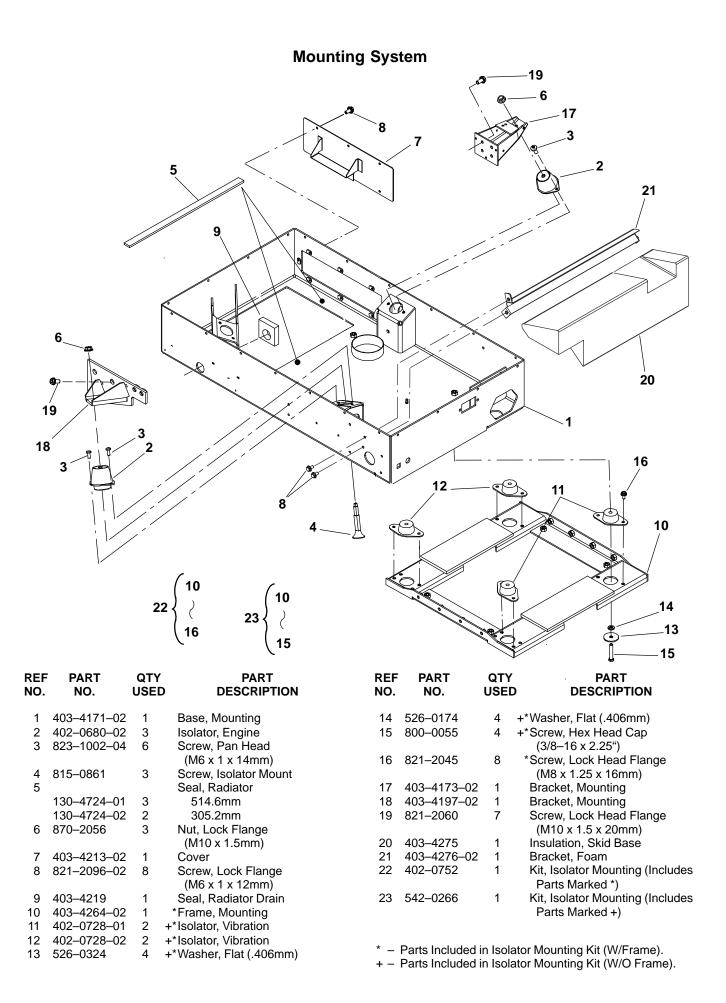
Exhaust System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155–3151	1	Muffler	11	187–1309	4	Stud (20mm)
2	154-3033	1	Pipe, Flex Exhaust	12	187-1019	6	Nut
3	154-2800	2	Gasket, Exhaust Manifold	13	187-1219	1	Gasket, Exhaust Manifold
4	850-2008	9	Washer, Spring Lock (M8)	14	187-1033	2	Stud, Manifold (79mm)
5	860-2008	7	Nut, Hex (M8 x 20mm)	15	187-1013	2	Bolt (70mm)
6	800-2057	3	Screw, Hex Head Cap	16	526-2100	1	Washer (M8)
			(M8 x 1.25 x 20mm)	17	800-0730	2	Screw, Hex Head (5/16-18 x 1")
7	821-2060	1	Screw, Lock Flange	18	526-0115	2	Washer, Flat (5/16")
			(M10 x 1.5 x 20mm)	19	155-3194	1	Elbow, Exhaust
8	187–1194	1	Gasket, Exhaust Manifold	20			Tube, Exhaust
9	187-1207	1	Manifold, Exhaust		155-2610	1	3"
10	187–1010	2	Bolt (40mm)		155-2424	1	7"

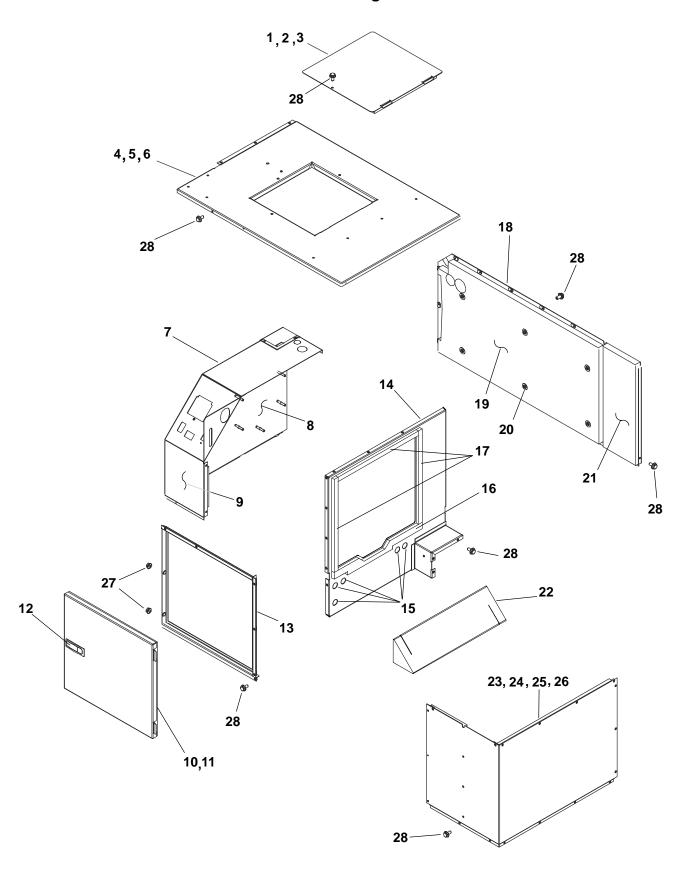
Ground System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-0090	1	Strap, Electrical	5	526-0052	2	Washer, Flat (M10)
2	800–2085	2	Screw, Hex Head Cap (M10 x 20)	6	810–0155	2	Screw, Round Head Brass Machine (M10 x 1.5 x 20mm)
3	856-0010	4	Washer, EIT Lock (3/8")	7	856-0006	4	Washer, EIT Lock (1/4")
4	860-2009	1	Nut, Hex (M10)	8	871-0016	1	Nut, Hex (1/4-20)



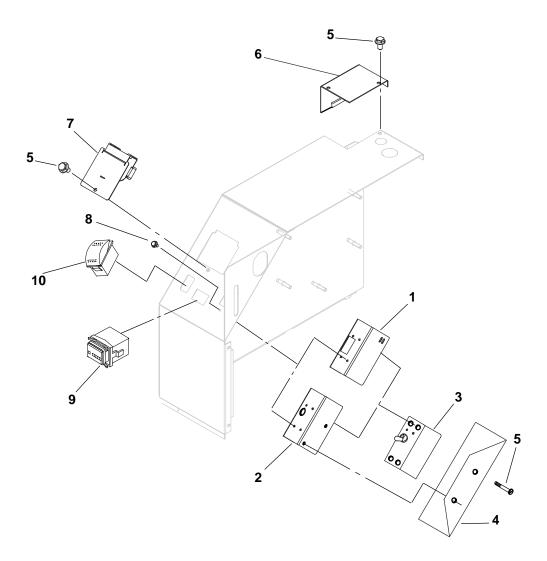
Housing



Housing

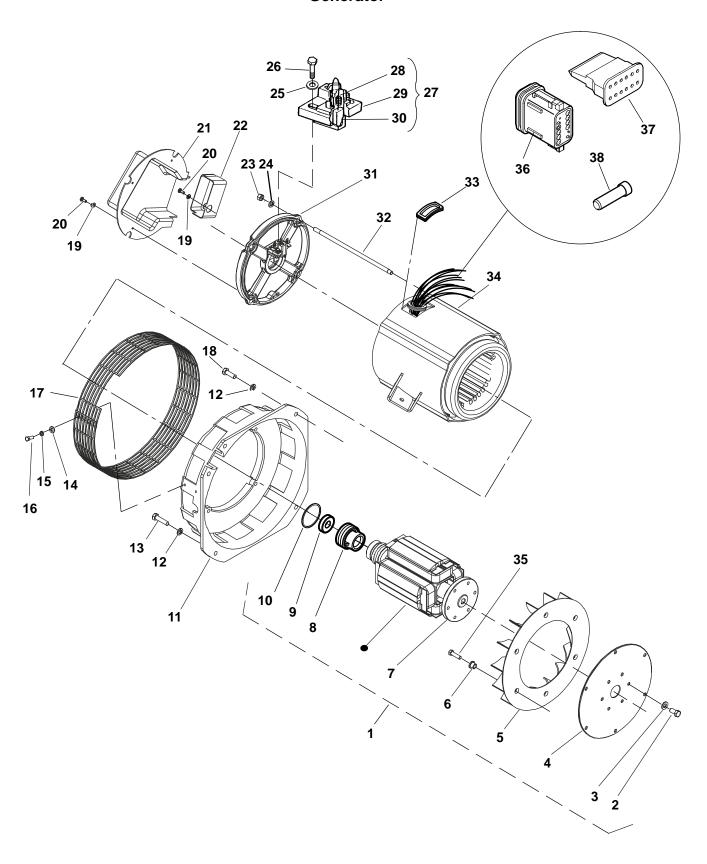
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cover Assy, Access (Includes Insulation and Nuts)	14	405–6066	1	Baffle Assy (Includes Grommets and Seals)
	405-5897-01	1	HDCAA, HDCAB	15	508-1122	5	Grommet
	405-5897-02	1	HDCAC	16	130-4746-01	1	Seal, Fan (460mm)
2	405-5882	1	Insulation, Access Cover	17	130-4746-02	3	Seal, Fan (420mm)
3	518-0581	2	Nut, Push-On	18			Panel Assy, Rail (Includes
4			Panel Assy, Top (Includes				Insulation and Nuts)
			Insulation and Nuts)		405-5890-01	1	HDCAA, HDCAB
	405-5887-01	1	HDCAA, HDCAB		405-5890-02	1	HDCAC
	405-5887-02	1	HDCAC	19	405-5878	1	Insulation, Rail Panel
5	405-5879	1	Insulation, Top Panel	20	518-0581	6	Nut, Push-On
6	518-0581	7	Nut, Push-On	21	405-5891	1	Insulation, Rail Panel
7	405-5892-01	1	Panel Assy, Cap (Includes	22	403-4274	1	Insulation, Skid Base
			Insulation)	23			Panel Assy, Engine (Includes
8	405-5881	1	Insulation, Cap				Insulation)
9	405-5888	1	Insulation, Cap		405-5889-01	1	HDCAA, HDCAB
10			Door Assy (Includes Insulation		405-5889-02	1	HDCAC
			and Latch)	24	405-5885	1	Insulation, Panel (439 x 577mm)
	405-5895-01	1	HDCAA, HDCAB	25	405-5880	1	Insulation, Panel
	405-5895-02	1	HDCAC				(181.4 x 420.5mm)
11	405-5886	1	Insulation, Access Cover	26	405-6121	1	Insulation, Panel
12	405-5884	1	Latch, Access Cover				(118.4 x 200mm)
13			Frame, Door	27	870-2054	2	Nut, Lock Flange (M6 x 1)
	405-5932-02	1	HDCAA, HDCAB	28	821-2096-02	71	Screw, Lock Flange
	405-5932-03	1	HDCAC				-

Housing End Cap



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	320-1968-02	1	Guard, CB (HDCAA, HDCAB)	6	405-5380-05	1	Cover, AC
2	320-2012-02	1	Guard, Upper CB (HDCAC	7	405-5309-03	1	Cover, Access
3			Breaker, Circuit	8	815-0549-01	4	Screw, Pan Head (6-32 x 1/4)
	320-1984-08	1	HDCAA (45A)	9	302-2002	1	Meter, Hour
	320-1984-09	1	HDCAB (50A)	10	308-1038	1	Switch, Rocker
	320-2014-08	1	HDCAC (45A)				
4	320-2013-02	1	Guard, Lower CB (HDCAC)				
5			Screw, Lock Flange				
	821-2096-02	3	HDCAA, HDCAB				
	821-2096-02	5	HDCAC				

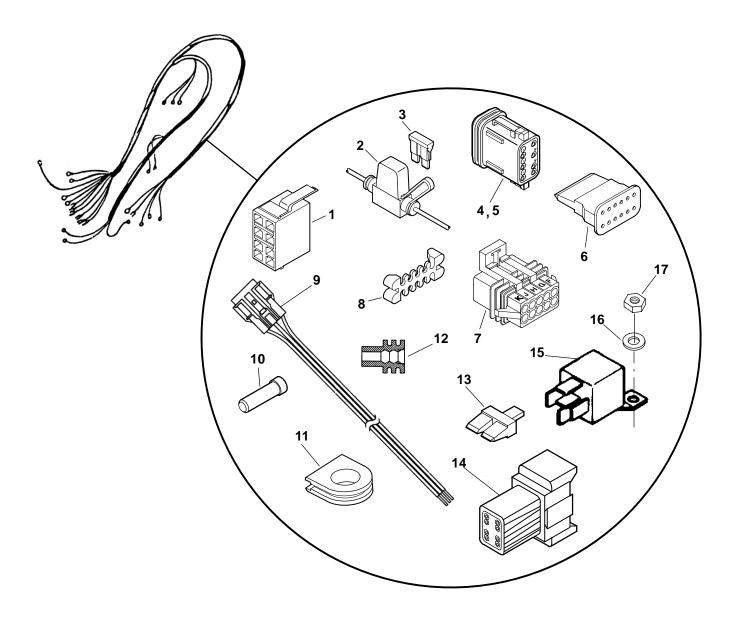
Generator



Generator

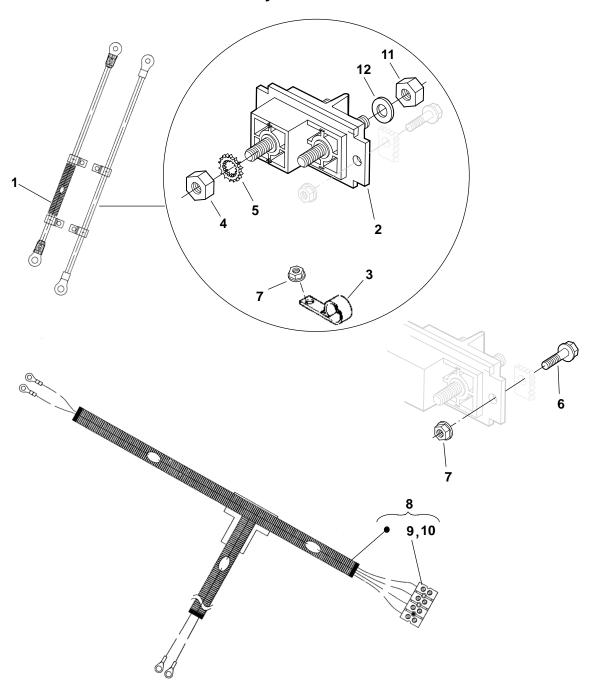
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
1			Rotor Assy, Generator (Includes	21	211-0488	1	Intake, Endbell
			Parts Marked *)	22	211-0489-02	1	Duct, Inlet
	201-3506-03	1	HDCAC, HDCAB	23	862-0026-07	4	Nut, Hex (3/8-16)
	201-3549-03	1	HDCAC	24	526-0029	4	Washer, Flat
2	800-2056	6	*Screw, Hex Head Cap	25	526-0399-56	2	Washer, Flat (M5)
			(M8 x 1.25 x 16mm)	26	800-0309-89	2	Screw, Hex Head Machine
3	526-2103	6	*Washer, Flat (M8)				(M5 x 0.8 x 16)
4	232-3915	1	*Disc, Generator Drive	27	212-1285	1	Block Assy, Generator Brush
5	205-0220	1	*Fan, Generator				(Includes Spring, Block and
6	232-3296	6	*Spacer, Fan				Brush)
7	232-3753	1	*Hub, Rotor Drive	28	212-1276-03	2	Spring, Generator Brush
8	204-0134	1	*Ring, Collector	29	212-1286	1	Block, Brush
9	510-0099	1	*Bearing, Ball	30	214-0103	2	Brush, Generator
10	509-0196	1	O'Ring	31	211-0447	1	Endbell
11	231-0379	1	Adapter, Generator	32	520-1000-03	4	Stud (284mm)
12	850-2010	5	Washer, Lock	33	508-1049-02	1	Edging
13	800-2087	4	Screw, Hex Head Cap	34			Stator, Generator
			(M10 x 30mm)		220-4543-03	1	HDCAA, HDCAB
14	526-2080	2	Washer, Flat (M6)		220-4543-05	1	HDCAC
15	850-2005	2	Washer, Lock	35	800–2515	6	Screw, Hex Head Cap
16	800-2006	2	Screw, Hex Head Cap				(M8 x 1.25 x 30mm)
			(M5 x 14mm)	36	323-1541	1	Plug (8 Pin)
17	232-3755-02	1	Guard, Fan	37	323-1543	1	Plug, Wedge
18	800–2089	1	Screw, Hex Head Cap	38	323–1591	1	Plug, Seal
			(M10 x 1.5 x 40mm)				
19	526–2050	4	Washer, Flat (M4)	*	Parte Included	in Cana	rator Rotor Assy.
			(M4 x 0.7 x 10mm)	_	rans included	iii Genei	ator Rotor Assy.
20	815–0865–05	4	Screw, Pan Head				
			(M4 x 0.7 x 10mm)				

Engine Harness



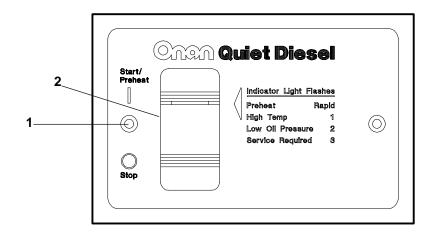
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338–3575	1	Harness, Engine	10	323-1591	2	Plug, Cavity
1	308-1019	1	Connector, Switch (P9)	11	508-1105	1	Grommet
2	321-0322	2	Holder, Fuse (F1)	12	323-1708	AR	Seal, Cable
3	321-0321-07	1	Fuse (F1) (15A)	13	323-1544	1	Wedge (J3)
4	323-1582	1	Connector, Plug (12 Pin) (P1)	14	323-1542	1	Connector (8 Pin) (J3)
5	323-1582-02	1	Connector, Plug (12 Pin) (P2)	15	307-1886	2	Relay (K1)
6	323-1583	2	Wedge, Plug (12 Pin) (P1, P2)	16	526-0003	2	Washer
7	323-1711	1	Connector, Plug (10 Pin) (P8)	17	860-2005	2	Nut, Lock Flange (M4 x 1)
8	323-1719	1	Lock, Housing				
9	323–1773	AR	Connector, Alt				

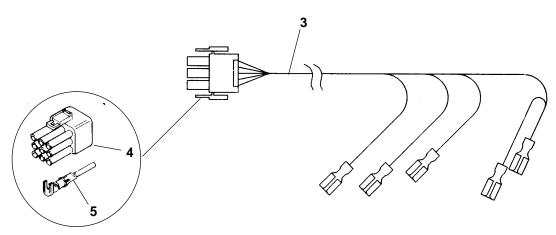
Battery/AC Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338–3577	1	Harness, Wiring (Includes Parts Marked *)	9 10	332–3531–03 812–0070	1 2	Block, AC Terminal (TB2) Screw, Round Head Machine
2	332-3408	1	*Block, Terminal (TB1)				(6-32 x 1-1/4")
3	332-1554	4	*Clamp, Insulated Loop	11	871-0025	2	Nut, Hex Brass (5/16-18)
4	862-0015	2	*Nut, Hex (5/16-18)	12	526-0054	2	Washer, Flat (5/16")
5	856-0008	2	*Washer, EIT Lock (5/16–18)				
6	821–2096–03	2	Screw, Lock Flange (M6 x 1 x 16mm)	* -	Parts Included	in Batter	y Wiring Harness.
7	870-2054	5	Nut, Lock Flange (M6 x 1)				
8	338–3576	1	Harness, AC (Includes AC Terminal Block)				

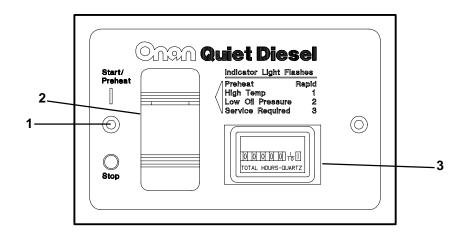
Remote Switch Panel

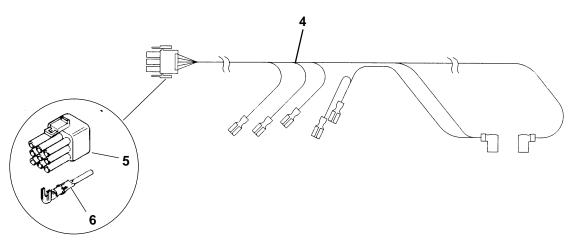




REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4942	1	Kit, Switch Only Remote Panel	4	323-1291	1	Plug (9 Pin)
1	815-0910	2	Screw, Wood Mounting (#6 x 1)	5	323-1199	4	Pin, Contact
2	308-1062	1	Switch, Rocker				
3	338–3512	1	Harness, Remote Panel (Includes Pins and Plug)				

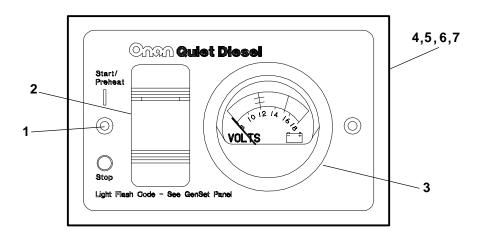
Remote Switch/Hourmeter Panel

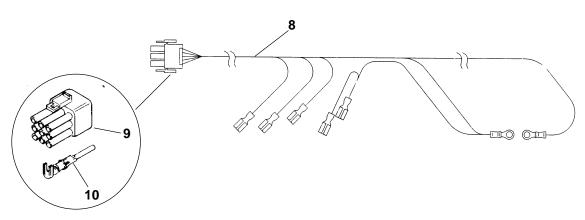




REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
				3	302-2002	1	Meter, Hour
	300–4943	1	Kit, Switch/Hourmeter Remote Panel	4	338–3475	1	Harness, Remote Panel (Includes Pins and Plug)
1	815-0910	2	Screw, Wood Mounting (#6 x 1)	5	323-1291	1	Plug (9 Pin)
2	308-1062	1	Switch, Rocker	6	323-1199	4	Pin, Contact

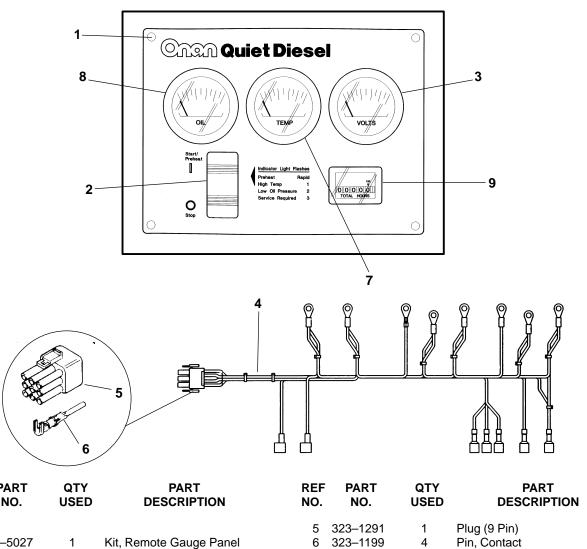
Remote Switch/Voltmeter Panel





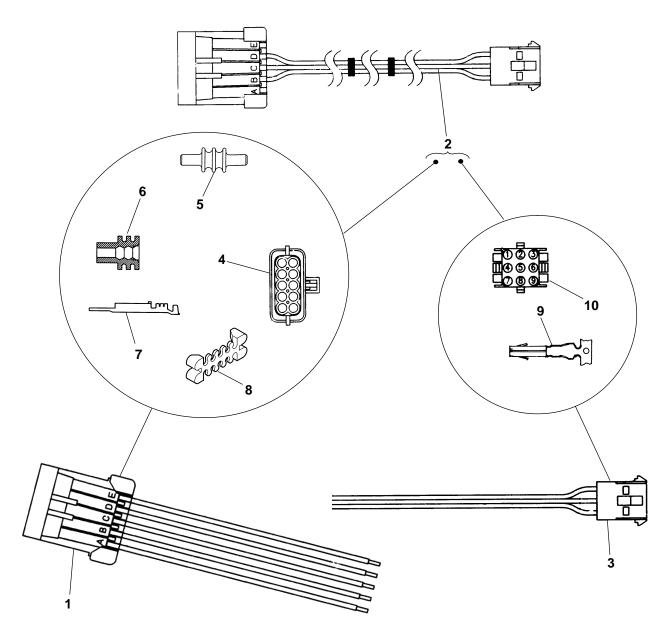
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4944	1	Kit, Switch/Voltmeter	7	850-0030	2	Washer, Lock
1	815-0910	2	Screw, Wood Mounting (#6 x 1)	8	338-3509	1	Harness, Remote Panel
2	308-1062	1	Switch, Rocker				(Includes Pins and Plug)
3	302-1641	1	Meter, Voltage	9	323-1291	1	Plug (9 Pin)
4	526-0409	2	Washer, Nylon	10	323-1199	4	Pin, Contact
5	526-0049	4	Washer, Flat				
6	871–0010	4	Nut, Hex Brass Machine (10–32)				

Remote Gauge Panel



(Inclues Plug and Pins)

Remote Harnesses



REF NO.	PART NO.	QTY USEC	PART DESCRIPTION	REF NO.	PART NO.	QTY USEI	
1	300–4947	1	Harness, Remote (Includes Parts Marked *)	6 7	323–1708 323–1707	8 8	+*Seal, Cable +*Pin, Contact
2			Harness, Remote Panel (Includes Parts Marked +)	8 9	323–1719 323–1200	1 AR	+*Housing, Lock +#Socket, Contact
	338-3490-01 338-3490-02	1 1	10' 30'	10	323–1325	1	+#Cap, Connector
3	338–3573	1	Harness, Adapter (Includes Parts Marked #)				mote Harness (300–4947).
4 5	323–1710 323–1712	1 2	+*Connector, Receptacle +*Plug, Cavity				mote Panel Harness (338–3490). Apter Harness (338–3573).

Labels, Miscellaneous

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	098-7465-03	1	Label, Control Face				Parts Marked *)
			Label, Control Panel		098-7464	1	*Label, Coolant Drain
	098-7399-01	1	45A, 2 Pole		098-7463	1	*Label, Fuel Attachment
	098-7399-02	1	50A, 2 Pole		098-6476	1	Label, Ground
	098-7466	1	Label, Control Rear		098-6877	1	*Label, Hot/Cold
	098-7464	1	Label, Coolant Drain		098-7462	1	*Label, Service Information
	098-7463	1	Label, Fuel Attachment		098-7498-01	1	*Label, Warning Hazardous
	098-7462	1	Label, Service Information				Voltage (Terminal ID)
			Label, Model Ident		098-7128	2	*Label, Warning Hazardous
	098-7398-01	2	HDCAA				Voltage/Rotational Parts
	098-7398-02	2	HDCAB		098-7130	1	*Label, Warning Heat
	098-7369-01	2	HDCAC		098-7515-01	1	Label, Warning Voltage
	098-7461	1	Label, Warning Hazardous				, 5
			Voltage				
	098-7130	1	Label, Warning Heat	* –	Parts Included	in Labe	l Package.
	098-7497-01	1	Label, Warning Install				
	098-7476	1	Label, Packaged (Includes				

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